

SEEMLA

**Sustainable exploitation of biomass for bioenergy
from marginal lands in Europe**

SEEMLA Project Grant Agreement no. 691874

Program

1st International Symposium

to be held during the

EGU General Assembly 2017

as

Session SSS2.10

**“Soils of Marginal Lands – Definition, Assessment
and Land Use Options”**

25th April, 2017

Vienna, Austria

Oral SSS2.10

Tuesday, 25 Apr, 08:30–10:00, Room -2.21

Chairperson: Wibke Baumgarten & Diego Mattioli

Definition and classification of marginal lands

08:30–09:00	EGU2017-626	Saori Miyake and Damian Bargiel	'Underutilised' agricultural land: its definitions, potential use for future biomass production and its environmental implications (solicited)
09:00–09:15	EGU2017-541	Vadym Ivanina	What makes up marginal lands and how can it be defined and classified?
09:15–09:30	EGU2017-3303	Massimo Fagnano and Nunzio Fiorettrino	Limits and Perspectives of cultivation of Biomass crops in marginal areas of Campania Region: the case of the so called "Terra dei Fuochi".

Assessment and potentials of marginal lands

09:30–09:45	EGU2017-4908	Frank Repmann, Werner Gerwin, and Dirk Freese	Assessing soil quality and potential productivity – a basic approach to define and assess the marginality of land
09:45–10:00	EGU2017-16034	Dirk Freese and Anna Slazak	Time-dependent phosphate dynamics in reclaimed lignite-mine soils under Robinia pseudoacacia L.

Coffee break

Tuesday, 25 Apr, 10:30–12:00, Room -2.21

Chairperson: Federica Barbera & Werner Gerwin

10:30–10:45	EGU2017-8819	Simon Landhäuser	Challenges in forest reclamation of marginal lands: a balance between site conditions and seedling quality
10:45–11:00	EGU2017-17344	Maik Veste, Christian Halke, Dieter Schmitt, Dario Mantovani, Reiner Zimmermann, Manfred Küppers, and Dirk Freese	Implications of soil heterogeneity on growth performance of fast-growing trees under marginal site conditions - an ecophysiological perspective
11:00–11:15	EGU2017-18725	Jan Frouz	Using unassisted ecosystem development to restore marginal land case study of post mining areas

Policies and decision support

11:15–11:45	EGU2017-15635	Calliope Panoutsou	An integrated policy framework for the sustainable exploitation of biomass for bioenergy from marginal lands (solicited)
11:45–12:00	EGU2017-1737	Wibke Baumgarten and Vincent Pelikan	Legal framework for a sustainable biomass production for bioenergy on Marginal Lands
12:00–12:15	EGU2017-4625	Rita Mergner, Rainer Janssen, Dominik Rutz, Dirk Knoche, Raul Köhler, Marco Colangeli, Peter Gyuris and the FORBIO project partners	Fostering sustainable feedstock production for advanced biofuels on underutilised land in Europe
12:15–12:30	EGU2017-2384	Spyridon Galatsidas, Nikolaos Gounaris, Elias Dimitriadis, Nils Rettenmaier, Tobias Schmidt, and Despoina Vlachaki	Developing tools to identify marginal lands and assess their potential for bioenergy production

Poster SSS2.10

Display time: Tuesday, 25 Apr, 08:00–19:30

Attendance time: Tue, 25 Apr, 17:30–19:00

Chairperson: Federica Barbera, Wibke Baumgarten, Werner Gerwin, Diego Mattioli

Posters from the SEEMLA-project

1	EGU2017-2046	Federica Barbera, Wibke Baumgarten, and Vincent Pelikan	Sustainable biomass production on Marginal Lands (SEEMLA)
2	EGU2017-7904	Wibke Baumgarten, Vadym Ivanina, and Oleksandr Hanzhenko	Biomass production on marginal lands – catalogue of bioenergy crops
3	EGU2017-18761	Wibke Baumgarten and Birger Kerckow	SEEMLA: 'Filling the gap' – The Future of bioenergy in the EU and the role of biomass from marginal lands
4	EGU2017-4484	Nikitas Fragkiskakis, Fotios Kiourtsis, Dimitrios Keramitzis, Ioannis Papatheodorou, Margarita Georgiadou, Frank Reppmann, and Werner Gerwin	The Importance of Seedlings Quality in Timber and Bio-energy Production on marginal lands
5	EGU2017-4037	Fotios Kiourtsis, Dimitris Keramitzis, Ioannis Papatheodorou, Dimitra Tsoulakaki, Marina Gontzaridou, Eugenia Lampetsou, Nikitas Fragkiskakis, Werner Gerwin, Frank Reppmann, and Wibke Baumgarten	Marginal sites in for biomass production – case study sites in northern Greece. Obstacles and solutions
6	EGU2017-18840	Werner Gerwin and Frank Reppmann	Soil properties of selected marginal lands in Europe – hazard indicators
7	EGU2017-19068	Nils Rettenmaier, Tobias Schmidt, Sven Gärtner, and Guido Reinhardt	Life Cycle Assessment of Bioenergy from Lignocellulosic Crops Cultivated on Marginal Land in Europe

Land use potentials of marginal lands

8	EGU2017-1902	Aline Clalüna, Wibke Baumgarten, Daniel García Galindo, Klaus Lenz, Jan Doležal, Federico De Filippi, Joaquín Lorenzo, and Louis Montagnoli	The greenGain project – Biomass from landscape conservation and maintenance work for renewable energy production in the EU
9	EGU2017-18777	Wibke Baumgarten and Diego Piedra Garcia	ISABEL Triggering Sustainable Biogas Energy Communities through Social Innovation
10	EGU2017-1887	Moritz Nabel, Hendrik Poorter, Vicky Temperton, Silvia D Schrey, Robert Koller, Ulrich Schurr, and Nicolai D Jablonowski	Energizing marginal soils: A perennial cropping system for <i>Sida hermaphrodita</i>
11	EGU2017-11835	Stefan Lukas, Markus Theiß, and Kerstin Jäkel	Sorghum - An alternative energy crop for marginal lands and reclamation sites

12	EGU2017-6525	Yuriy Tsapko, Karina Desyatnik, and Alyona Kholodna	Cultivation of energy crops on degraded drained lands as an effective way of improving of their agrieological state
13	EGU2017-7728	Stefan Schrader, Quentin Schorpp, Anna Lena Müller, and Jens Dauber	Agro-ecological potential of the cup plant (<i>Silphium perfoliatum</i> L.) from a biodiversity perspective
14	EGU2017-18010	Mark Bartlett, Samantha Hartzell, and Amilcare Porporato	Biofuel crops with CAM photosynthesis: Economic potential on moisture-limited lands
15	EGU2017-18851	Claudia Oehmke, Tobias Dahms, Sabine Wichmann, and Wendelin Wichtmann	Paludiculture on marginal lands – sustainable use of wet peatlands
16	EGU2017-6583	Werner Gerwin and Wolfgang Schaaf	Potentials of marginal lands – sponateous ecosystem development
17	EGU2017-4003	Florian Hirsch, Marieke van der Maaten-Theunissen, Ernst van der Maaten, Anna Schneider, Alexandra Raab, and Thomas Raab	Soil physics and chemistry at a medieval ridge and furrow site in northeastern Germany
18	EGU2017-7398	Andrea Ziesemer, Gurgel Andreas, and Bull Ines	Economics of plant production on marginal sites in the state Mecklenburg-Vorpommern
19	EGU2017-18940	Wibke Baumgarten, Boris Vashev and the VERAM Consortium	VERAM - Vision and Roadmap for European Raw Materials

Remediating marginal lands

20	EGU2017-17760	Franz Kirchmeyr and Manfred Szerencsits	Cover-crops – improvement of soil fertility and provision of biomass
21	EGU2017-4338	Steffi Schillem, Bernd-Uwe Schneider, Uwe Zeihser, and Reinhard F. Hüttl	Application of N-modified lignite and activated biochar to increase growth of summer wheat on nutrient-poor sandy soil
22	EGU2017-12570	Katja Boldt-Burisch and M. Anne Naeth	The influence of arbuscular mycorrhizae on root precision nutrient foraging of two pioneer plant species during early reclamation
23	EGU2017-6409	Tsvetelina Dimitrova, Frank Repmann, and Dirk Freese	Remediation of cyanide-contaminated industrial sites through woody biomass production
24	EGU2017-15488	Diana-Maria Seserman, Maik Veste, and Dirk Freese	Optimisation of biomass productivity of black locust (<i>Robinia pseudoacacia</i> L.) on marginal lands – a case study in Lower Lusatia, NE Germany